CLAIMS

1	1.	A method for tracking and controlling e-mail forwarding of an encrypted		
2		document generated by a publisher from a user connected to a content server to		
3		a recipient user, comprising:		
4		(a)	in response to a request from the user, preparing in the content server, an	
5			e-mail message that contains a link to the publisher and an identifier for	
6			the document;	
7		(b)	sending the e-mail message to the recipient user wherein, upon receiving	
8			the e-mail, the recipient user logs onto a forwarding server at the	
9			document publisher;	
10		(c)	receiving and resolving the link at the publisher and downloading a secure	
11			viewer program to the recipient user and an encrypted version of the	
12			requested document to the secure browser program;	
13		(d)	requesting a decryption key for the encrypted document with the secure	
14			viewer program; and	
15		(e)	decrypting the encrypted document and displaying the document content	
16			in the secure viewer program.	
1	2.	The method of claim 1 wherein step (a) comprises making the request to forward		
2		the e	encrypted document to the recipient user with a secure viewer running in a	
3		brow	ser.	
1	3.	The method of claim 1 wherein the link in the e-mail message contains		
2		information identifying the sender of the e-mail, the recipient of the e-mail and the		
3		encrypted document.		
1	4.	The method of claim 3 wherein the information is inserted into the URL of the link		

to the publisher.

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- The method of claim 3 wherein step (a) comprises encrypting the identifying information in the e-mail message.
- 1 6. The method of claim 5 wherein step (a) comprises encrypting the information with a public key of a public/private key pair assigned of the publisher.
- 7. The method of claim 1 wherein step (b) comprises opening, in a computer of the recipient user, a browser in response to a selection of the link by the recipient user and navigating to the forwarding server.
- 1 8. The method of claim 7 wherein step (c) comprises downloading a secure viewer program into the browser in the recipient user's computer.
- 1 9. The method of claim 1 wherein step (c) comprises downloading a document 2 identifier to the secure viewer program running in the recipient user's computer.
- 1 10. The method of claim 9 wherein step (d) comprises using the document identifier to request a decryption key from the forwarding server.
- 1 11. The method of claim 10 wherein step (d) further comprises returning the decryption key from the forwarding server to the secure viewer program in response to the document identifier.
- 1 12. The method of claim 1 further comprising logging the information in the e-mail including the sender, the recipient and the document identifier by the forwarding server.

- 1 13. The method of claim 1 wherein the link maintains a count of the number of times it has been selected.
- 1 14. The method of claim 13 wherein the link is a one-time link.

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1 15. Apparatus for tracking and controlling e-mail forwarding of an encrypted 2 document generated by a publisher from a user connected to a content server to 3 a recipient user, comprising:

> means responsive to a request from the user for preparing in the content server, an e-mail message that contains a link to the publisher and an identifier for the document;

means for sending the e-mail message to the recipient user wherein, upon receiving the e-mail, the recipient user logs onto a forwarding server at the document publisher;

means for receiving and resolving the link at the publisher and downloading a secure viewer program to the recipient user and an encrypted version of the requested document to the secure browser program;

means for requesting a decryption key for the encrypted document with the secure viewer program; and

means for decrypting the encrypted document and displaying the document content in the secure viewer program.

1 16. The apparatus of claim 15 wherein the request to forward the encrypted document to the recipient user is made with a secure viewer running in a browser.

- 1 17. The apparatus of claim 15 wherein the link in the e-mail message contains
 2 information identifying the sender of the e-mail, the recipient of the e-mail and the
 3 encrypted document.
- 1 18. The apparatus of claim 17 wherein the information is inserted into the URL of the link to the publisher.
- 1 19. The apparatus of claim 17 further comprising means for encrypting the identifying information in the e-mail message.
- The apparatus of claim 19 wherein the means for encrypting the identifying information comprises means for encrypting the information with a public key of a public/private key pair assigned of the publisher.
- The apparatus of claim 15 further comprising means for opening, in a computer of the recipient user, a browser in response to a selection of the link by the recipient user and means for using the browser to navigate to the forwarding server.
- The apparatus of claim 21 wherein the means for downloading a secure viewer program comprises means for downloading a secure viewer program into the browser in the recipient user's computer.
- The apparatus of claim 15 wherein the means for downloading an encrypted version of the requested document to the secure browser program comprises means for downloading a document identifier to the secure viewer program running in the recipient user's computer.

- The apparatus of claim 23 wherein the means for requesting a decryption key comprises means for using the document identifier to request a decryption key from the forwarding server.
- The apparatus of claim 24 wherein the means for requesting a decryption key further comprises means for returning the decryption key from the forwarding server to the secure viewer program in response to the document identifier.
- The apparatus of claim 15 further comprising means for logging the information in the e-mail including the sender, the recipient and the document identifier by the forwarding server.
- 1 27. The apparatus of claim 15 wherein the link maintains a count of the number of times it has been selected.
- 1 28. The apparatus of claim 27 wherein the link is a one-time link.

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A computer program product for tracking and controlling e-mail forwarding of an encrypted document generated by a publisher from a user connected to a content server to a recipient user, the computer program product comprising a computer usable medium having computer readable program code thereon:

program code operable in response to a request from the user, for preparing in the content server, an e-mail message that contains a link to the publisher and an identifier for the document;

program code for sending the e-mail message to the recipient user wherein, upon receiving the e-mail, the recipient user logs onto a forwarding server at the document publisher;

11 program code for receiving and resolving the link at the publisher and 12 downloading a secure viewer program to the recipient user and an encrypted version of the requested document to the secure browser program; 13 14 program code for requesting a decryption key for the encrypted document with the secure viewer program; and 15 16 program code for decrypting the encrypted document and displaying the 17 document content in the secure viewer program. 30. 1 The computer program product of claim 29 wherein the program code for 2 preparing an e-mail message comprises a secure viewer program running in a browser that makes the request to forward the encrypted document to the 3 4 recipient user. The computer program product of claim 29 wherein the link in the e-mail 1 31. 2 message contains information identifying the sender of the e-mail, the recipient of 3 the e-mail and the encrypted document. 32. 1 The computer program product of claim 31 wherein the information is inserted 2 into the URL of the link to the publisher. 1 33. The computer program product of claim 31 wherein the program code for 2 preparing an e-mail message comprises program code for encrypting the identifying information in the e-mail message. 3 34. 1 The computer program product of claim 33 wherein the program code for preparing an e-mail message comprises program code for encrypting the 2

information with a public key of a public/private key pair assigned of the

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publisher.

- The computer program product of claim 29 wherein the program code for sending the e-mail message to the recipient user comprises program code for opening, in a computer of the recipient user, a browser in response to a selection of the link by the recipient user and navigating to the forwarding server.
- The computer program product of claim 35 wherein the program code for downloading a secure viewer program to the recipient user comprises program code for downloading a secure viewer program into the browser in the recipient user's computer.
- The computer program product of claim 29 wherein the program code for downloading a secure viewer program to the recipient user comprises program code for downloading a document identifier to the secure viewer program running in the recipient user's computer.
- The computer program product of claim 37 wherein the program code for requesting a decryption key for the encrypted document comprises program code for using the document identifier to request a decryption key from the forwarding server.
- The computer program product of claim 38 wherein the program code for requesting a decryption key for the encrypted document further comprises program code for returning the decryption key from the forwarding server to the secure viewer program in response to the document identifier.
- The computer program product of claim 29 further comprising program code for logging the information in the e-mail including the sender, the recipient and the document identifier by the forwarding server.

- 1 41. The computer program product of claim 29 wherein the link maintains a count of the number of times it has been selected.
- 1 42. The computer program product of claim 41 wherein the link is a one-time link.